FIRST AID

If Inhaled
- Move person to fresh air.
- If person is not breathing, call 911 or an emergency response service immediately. If breathing is not difficult, allow the person to breathe normally.
- Do not give by mouth to an unconscious person.

If on skin or clothing
- Take off contaminated clothing and wash skin immediately with plenty of water for at least 15 minutes. If irritation occurs, get medical help.
- Do not rub area when removing clothing.

If in eyes
- Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses if present. Keep rinse water flowing. If pain or redness persists, consult a physician.

If swallowed
- Call a poison control center immediately for advice on measures to be taken.
- If you have ingested a small amount of this material, call a physician or hospital immediately.

Have the product container or label with you when calling a physician or hospital.

FOR ADDITIONAL EMERGENCY INFORMATION, CALL 1-800-289-1313 (7 AM TO 11 PM EST, MONDAY TO FRIDAY) OR 1-888-973-1213 (24-HOUR EMERGENCY INFORMATION).

Table of Contents

I. GENERAL INFORMATION
II. HAZARD IDENTIFICATION
III. COMPOSITION/INGREDIENTS
IV. FIRST AID MEASURES
V. FIRE-FIGHTING MEASURES
VI. ACCIDENTAL RELEASE MEASURES
VII. HANDLING AND STORAGE
VIII. EXPOSURE CONTROL/PERSONAL PROTECTION
IX. HUMAN HEALTH EFFECTS
X. PHYSICAL AND CHEMICAL PROPERTIES
XI. STABILITY
XII. REACTIVITY
XIII. TOXICOLOGICAL AND ECOLOGICAL INFORMATION
XIV. DISPOSAL CONSIDERATIONS
XV. REGULATORY INFORMATION
XVI. ADDITIONAL INFORMATION
XVII. LABELING INSTRUCTIONS
XVIII. SUPPLEMENTARY INFORMATION

I. GENERAL INFORMATION

This product is a food-grade, non-ionic surfactant designed for use in the food and beverage industries. It contains only ingredients that are considered Generally Recognized as Safe (GRAS) by the U.S. Food and Drug Administration (FDA). The product is intended for use as a co-solvent in food and beverage formulations to improve emulsification and stability. It is not intended for direct human consumption.

II. HAZARD IDENTIFICATION

A. Health Hazards

- May cause irritation of the skin, eyes, and respiratory tract if swallowed, inhaled, or absorbed through the skin.
- May cause dermatitis or allergic reactions in sensitive individuals.

B. Physical Hazards

- Non-flammable.
- May cause slight local irritation if inhaled or swallowed.

C. Ecological Hazards

- May be environmentally harmful if not handled properly.
- May be toxic to aquatic life in water bodies.

III. COMPOSITION/INGREDIENTS

The active ingredient of this product is Chlorine Dioxide. The active ingredient is Chlorine Dioxide and its concentration is 0.5% v/v.

IV. FIRST AID MEASURES

A. Infants

- If swallowed, immediately call a physician or hospital.
- If inhaled, move to fresh air and call a physician or hospital.

B. Children

- If swallowed, immediately call a physician or hospital.
- If inhaled, move to fresh air and call a physician or hospital.

C. Adults

- If swallowed, immediately call a physician or hospital.
- If inhaled, move to fresh air and call a physician or hospital.

D. General Instructions

- If skin or eye contact occurs, wash with plenty of water for at least 15 minutes. If irritation persists, consult a physician.
- If symptoms of poisoning occur, seek medical attention immediately.

V. FIRE-FIGHTING MEASURES

A. Spontaneous Ignition

- Possible under certain conditions.

B. Special Firefighting Procedures

- Use water雾 to extinguish any fire.

C. Extinguishing Agents

- Water雾, foam, powder, or dry chemical are suitable.

D. Special Protective Equipment and Precautions

- Wear full protective clothing, including self-contained breathing apparatus (SCBA), when fighting or extinguishing fires.

VI. ACCIDENTAL RELEASE MEASURES

A. Spill or Leak

- Contain the spill or leak and wait for assistance from trained responders.

B. Traffic Cone(s)

- Use traffic cones to warn of the hazard.

C. Neutralizing Agents

- No special neutralizing agents are required.

D. Containment Procedures

- Use absorbent materials to contain the spill or leak.

E. Personal Protection Equipment

- Wear appropriate personal protective equipment, including protective clothing and self-contained breathing apparatus (SCBA).

VII. HANDLING AND STORAGE

A. Storage

- Store in a cool, dry, well-ventilated area.

B. Handling

- Handle with care to prevent spills and leaks.

C. Precautions

- Avoid contact with eyes, skin, and clothing.

D. Special Handling Instructions

- Do not mix with other materials or solvents.

E. Incompatibilities

- Do not mix with strong oxidizers.

F. Stability

- Stable under normal conditions of use.

G. Hazardous Decomposition

- The product may release hazardous decomposition products when subjected to combustion or thermal decomposition.

H. Physical and Chemical Stability

- The product is compatible with most food and beverage ingredients.

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION

A. Personal Protective Equipment

- Wear appropriate personal protective equipment, including respiratory protection, protective clothing, and gloves.

B. Local Exhaust Systems

- Use local exhaust systems to remove the product from the workplace.

C. Hygiene Practices

- Wash hands and other exposed skin areas after handling the product.

D. Exposure Monitoring

- Monitor exposure levels to ensure compliance with applicable regulations.

E. Medical Monitoring

- Medical monitoring may be required for workers exposed to the product.

IX. HUMAN HEALTH EFFECTS

A. Symptoms of Exposure

- Immediate or delayed symptoms may occur, including irritation of the eyes, nose, throat, and skin.

B. Clinical Manifestations

- No specific clinical manifestations are known for this product.

C. Medical Care

- Medical care may be required for severe exposure or if symptoms persist.

D. Acute Toxicity

- No acute toxicity data are available for this product.

E. Chronic Toxicity

- No chronic toxicity data are available for this product.

F. Carcinogenicity

- The product is not considered to be carcinogenic.

G. Reproductive Toxicity

- The product is not considered to be reproductive toxic.

H. Allergic or Sensitizing Potential

- The product is not considered to be allergic or sensitizing.

I. Other Toxicological Effects

- The product is not considered to be toxic to other organ systems.

X. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance

- Clear, colorless liquid.

B. Odor

- Odorless.

C. Odor Threshold

- Not applicable.

D. Odor Threshold

- Not applicable.

E. Melting Point

- Not applicable.

F. Boiling Point

- Not applicable.

G. Density

- Not applicable.

H. Viscosity

- Not applicable.

I. Flash Point

- Not applicable.

J. Flammability

- Not applicable.

K. Explosibility

- Not applicable.

L. Reactivity

- The product is stable under normal conditions of use.

M. Stability

- The product is stable under normal conditions of use.

N. Hazardous Decomposition

- The product may release hazardous decomposition products when subjected to combustion or thermal decomposition.

O. Hazardous Decomposition Products

- Chlorine, hydrogen chloride, and hydrogen fluoride.

P. Compounds in Common Use

- No compounds in common use are known for this product.

Q. Exposure Limits

- No exposure limits are available for this product.

R. Other Information

- The product is not considered to be mutagenic.

IX. STABILITY

A. Stability

- The product is stable under normal conditions of use.

B. Hazardous Decomposition

- The product may release hazardous decomposition products when subjected to combustion or thermal decomposition.

C. Stability in Water

- The product is stable in water.

D. Stability in Water Solutions

- The product is stable in water solutions.

E. Stability in Other Solvents

- The product is stable in most organic solvents.

F. Stability in Moderate Temperature

- The product is stable at room temperature.

G. Stability in High Temperature

- The product is stable at high temperature.

H. Stability in Low Temperature

- The product is stable at low temperature.

IX. REACTIVITY

A. Reactivity

- The product is not reactive.

B. Compatibility

- The product is compatible with most food and beverage ingredients.

C. Incompatibilities

- The product is incompatible with strong oxidizers.

D. Hazardous Reactions

- The product may release hazardous decomposition products when subjected to combustion or thermal decomposition.

E. Avoided Procedures

- Do not mix with strong oxidizers.

F. Maximum Concentration

- Not applicable.

G. Maximum Temperature

- Not applicable.

H. Maximum Pressure

- Not applicable.

IX. TOXICOLOGICAL AND ECOLOGICAL INFORMATION

A. Toxicological Information

- The product is considered to be non-toxic.

B. Ecological Information

- The product is considered to be non-ecotoxic.

IX. DISPOSAL CONSIDERATIONS

A. Disposal Methods

- Discharge to a sanitary sewer system is acceptable.

B. Disposal in the Environment

- Do not discharge into water bodies.

C. Disposal in Landfills

- Do not dispose of this product in landfills.

D. Disposal in Hazardous Waste

- This product is not considered to be hazardous waste.

IX. REGULATORY INFORMATION

A. Federal Regulations

- This product is not subject to any federal regulations.

B. State Regulations

- This product is not subject to any state regulations.

C. Local Regulations

- This product is not subject to any local regulations.

D. International Regulations

- This product is not subject to any international regulations.

IX. ADDITIONAL INFORMATION

A. Health Effects

- This product is considered to be non-toxic.

B. Fire and Explosion Hazards

- This product is considered to be non-explosive.

C. Stability

- This product is considered to be stable.

D. Reactivity

- This product is considered to be non-reactive.

E. Transportation Information

- This product is not subject to any transportation regulations.

F. Storage Information

- This product is considered to be non-corrosive.

G. Compatibility

- This product is considered to be compatible with most materials.

H. Handling Information

- This product is considered to be non-hazardous.

I. Long-Term Effects

- This product is considered to be non-toxic.

IX. LABELING INSTRUCTIONS

A. Labeling

- This product is not subject to any labeling requirements.

B. Use of Pictograms

- This product is not subject to any pictograms.

C. Use of Signal Words

- This product is not subject to any signal words.

D. Use of Hazard Statements

- This product is not subject to any hazard statements.

IX. SUPPLEMENTARY INFORMATION

A. Additional Information

- This product is considered to be non-toxic.

B. Notes

- This product is considered to be non-toxic.

C. Specific Instructions

- This product is considered to be non-toxic.

D. Warnings

- This product is considered to be non-toxic.

E. Precautions

- This product is considered to be non-toxic.

F. Additional Information

- This product is considered to be non-toxic.

G. Notes

- This product is considered to be non-toxic.

H. Specific Instructions

- This product is considered to be non-toxic.

I. Warnings

- This product is considered to be non-toxic.